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41	IS&R	2	("5903478").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/03 10:34	0	
42	BRS	0	871112.URPN.	USPAT	2003/01/03 10:31	0	
43	BRS	1	5903478.URPN.	USPAT	2003/01/03 10:31	0	
			("5408607" "5493489" "5717865" "5724262" "5734837" "5784539" "5890133" "5903478" "5909669" "5974392" "6002396").PN.	USPAT	2003/01/03 10:33	0	
44	BRS	11					
45	BRS	5101	"object model"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/03 10:34	0	
46	BRS	472	"object modeling"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/03 10:34	0	
47	BRS	5332	"object model" or "object modeling"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/03 10:35	0	
48	BRS	438	("object model" or "object modeling") same relationship	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/03 10:35	0	
49	BRS	16	("object model" or "object modeling") same relationship) same select	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/03 11:34	0	
50	BRS	0	6490581.URPN.	USPAT	2003/01/03 10:48	0	
51	BRS	6	("5586311" "5627979" "5809266" "6016488" "6122641" "6269475").PN.	USPAT	2003/01/03 10:51	0	
52	IS&R	2	("5726688").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/03 11:34	0	
53	BRS	9	5726688.URPN.	USPAT	2003/01/03 11:38	0	
54	BRS	10	("4622013" "4941829" "5018082" "5115501" "5267865" "5295228" "5310349" "5333237" "5372507" "5395243").PN.	USPAT	2003/01/03 11:39	0	

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Piero Fraternali
ACM Computing Surveys (CSUR) September 1999
Volume 31 Issue 3
The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...
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Hasan Davulcu , Juliana Freire , Michael Kifer , I. V. Ramakrishnan
ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data June 1999
Volume 28 Issue 2
The design of webbases, database systems for supporting Web-based applications, is currently an active area of research. In this paper, we propose a 3-year architecture for designing and implementing webbases for querying dynamic Web content(i.e., data that can only be extracted by filling out multiple forms). The lowest layer, virtual physical layer, provides navigation independence by shielding the user from the complexities associated wi ...
- 3** RMM: a methodology for structured hypermedia design 80%
Tomás Isakowitz , Edward A. Stohr , P. Balasubramanian
Communications of the ACM August 1995
Volume 38 Issue 8
- 4** Managing metaphors for advanced user interfaces 80%

-  **Aaron Marcus**
Proceedings of the workshop on Advanced visual interfaces June 1994
User interface design includes designing metaphors, the essential terms, concepts, and images representing data, functions, tasks, roles, organizations, and people. Advanced user interfaces require consideration of new metaphors and repurposing of older ones. Awareness of semiotics principles can assist researchers in developing more efficient and effective ways to communicate to more diverse user groups.
- 5** **Model-Based Construction of Collaborative Systems** 77%
 **M. A. Swaby , P. M. Dew , P. J. Kearney**
BT Technology Journal October 1999
Volume 17 Issue 4


The principal asset of an enterprise is its workforce, and a key factor distinguishing the successful enterprise of the forthcoming millennium is the empowerment of its staff in pursuit of corporate goals. While the more routine tasks will become totally automated, there will also be an increased use of IT to amplify the abilities of knowledge workers as individuals and members of collaborative teams. These teams are likely to be much more volatile than at present, being convened for specific ...
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 **Aaron Marcus**
interactions September 2002
Volume 9 Issue 5
- 7** **Next-Gen Open Hypermedia, Part One: Links in the palm of your hand: tangible hypermedia using augmented reality** 77%
 **Patrick Sinclair , Kirk Martinez , David E. Millard , Mark J. Weal**
Proceedings of the thirteenth conference on Hypertext and hypermedia June 2002
Contextualised Open Hypermedia can be used to provide added value to document collections or artefacts. However, transferring the underlying hyper structures into a users conceptual model is often a problem. Augmented reality provides a mechanism for presenting these structures in a visual and tangible manner, translating the abstract action of combining contextual linkbases into physical gestures of real familiarity to users of the system. This paper examines the use of augmented reality in hyp ...
- 8** **Session IV - languages: NUL: a Navigational User's Language for a network structured data base** 77%
 **Claude Deheneffe , Henri Hennebert**
Proceedings of the 1976 ACM SIGMOD international conference on Management of data June 1976
This paper presents an end-user's language which tries to solve the problem of an easy navigation through a DBTG-like data base structure. A request is expressed in a nonprocedural and hierarchically structured fashion. The dialogue is split into two main parts : first a data context definition, then the manipulations of this context. A context is a part of the data base that the user is concerned with. A context definition is formed by a set of labelled lines; each line is a condition declaratio ...

- 9** Requirements-based product line engineering 77%
 Mike Mannion , Hermann Kaindl
ACM SIGSOFT Software Engineering Notes , Proceedings of the 8th European software engineering conference held jointly with 9th ACM SIGSOFT international symposium on Foundations of software engineering September 2001
Volume 26 Issue 5
Reuse and requirements are very important for efficient and successful systems development. This tutorial presents the experiences of requirements reuse using a Method for Requirements Authoring and Management (MRAM). MRAM is a method for establishing and selecting from product line requirements. A product line is a group of products within the same market segment e.g. mobile phones. TRAM (Tool for Requirements Authoring and Management) is a software tool to support MRAM that utilises current pr ...
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 Richard Bodner , Mark Chignell
ACM Computing Surveys (CSUR) December 1999
- 11** User interface patterns for hypermedia applications 77%
 Gustavo Rossi , Daniel Schwabe , Fernando Lyardet
Proceedings of the Working Conference on Advanced Visual Interfaces May 2000
Designing high quality visual interfaces for hypermedia applications is difficult; it involves organizing different kinds of interface objects (for example those triggering navigation), prevent the user from cognitive overhead, etc. Unfortunately, interface design methods do not capture design decisions or rationale, so it is hard to record and convey interface design expertise. In this paper, we introduce interface patterns for hypermedia applications as a concept for reusing in ...
- 12** Crosscurrents: cultural dimensions and global Web user-interface design 77%
 Aaron Marcus , Emilie West Gould
interactions July 2000
Volume 7 Issue 4
- 13** Design: (Inter)facing the millennium: where are we (going)? 77%
 interactions January 2000
Volume 7 Issue 1
- 14** Constructing, organizing, and visualizing collections of topically related Web 77%
 resources
Loren Terveen , Will Hill , Brian Amento
ACM Transactions on Computer-Human Interaction (TOCHI) March 1999
Volume 6 Issue 1
For many purposes, the Web page is too small a unit of interaction and analysis. Web sites are structured multimedia documents consisting of many pages, and users often are interested in obtaining and evaluating entire collections of topically related sites. Once such a collection is obtained, users face the challenge of exploring, comprehending and organizing the items. We report four innovations that address these user needs: (1) we replaced the Web page with the Web site
- 15** Hypermedia potentials for analysis support tools 77%
 Douglas S. Lange
Proceedings of the tenth ACM Conference on Hypertext and hypermedia : returning to our diverse roots: returning to our diverse roots February 1999


16 Metaphor design in user interfaces 77%

 Aaron Marcus
ACM SIGDOC Asterisk Journal of Computer Documentation May 1998
Volume 22 Issue 2


17 XHMBS: a formal model to support hypermedia specification 77%

 Fabiano B. Paulo , Marcelo Augusto S. Turine , Maria Cristina F. de Oliveira , Paulo C. Masiero
Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems May 1998


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 Jim Rosenberg
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 Daniel Schwabe , Gustavo Rossi , Simone D. J. Barbosa
Proceedings of the the seventh ACM conference on Hypertext March 1996

20 An interactive environment for dialogue development: its design, use and 77%

 evaluation; or, is aide useful?
D. H. Hix , H. R. Hartson
ACM SIGCHI Bulletin , Conference proceedings on Human factors in computing systems
April 1986
Volume 17 Issue 4
The Author's Interactive Dialogue Environment (AIDE) of the Dialogue Management System is an integrated set of direct manipulation tools used by a dialogue author to design and implement human-computer interfaces without writing source code. This paper presents the conceptual dialogue transaction model upon which AIDE is based, describes AIDE, and illustrates how a dialogue author develops an interface using AIDE. A preliminary empirical evaluation of the use of AIDE versus ...

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21 Frame-axis model for automatic information organizing and spatial navigation 77%

Yoshihiro Masuda , Yasuhiro Ishitobi , Manabu Ueda

Proceedings of the 1994 ACM European conference on Hypermedia technology
September 1994

In taxonomic reasoning tasks, such as scientific research or decision making, people gain insight and find new ideas through analysis of large numbers of factual data or material documents, which are generally disorganized and unstructured. Hypermedia technology provides effective means of organizing and browsing information with such nature. However, for large amounts of information, the conventional node-link model makes linking or browsing operations be complicated because their relation ...

22 A nested-graph model for the representation and manipulation of complex 77%

objects

Alexandra Poulouvassilis , Mark Levene

ACM Transactions on Information Systems (TOIS) January 1994
Volume 12 Issue 1

Three recent trends in database research are object-oriented and deductive databases and graph-based user interfaces. We draw these trends together in a data model we call the Hypernode Model. The single data structure of this model is the hypernode, a graph whose nodes can themselves be graphs. Hypernodes are typed, and types, too, are nested graphs. We give the theoretical foundations of hypernodes and types, and we show that type checking is tractable. We show also how c ...

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Angela Patrick , Andy McGurgan

Proceedings of the 11th annual international conference on Systems documentation
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24 The art of search: a study of art directors 77%

Sharon R. Garber , Mitch B. Grunes


Conference proceedings on Human factors in computing systems June 1992

We formulated a model of visual search by conducting a work flow study and task ...

we formulated a model of visual search by conducting a work flow study and task analysis of art directors as they searched for images to use in an advertisement. The analysis revealed the presence of artistic and image concepts, flexible structures which guide the search and are molded by them. Analysis results were used to build a model-based interface for visual search. Results from presenting the interface to users indicate that the interface has the potential to make significant contrib ...

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 August-Wilhelm Scheer , Alexander Hars
Communications of the ACM September 1992
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